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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,664	06/10/2007	Tore Toennesen	10191/4456	8294
26646 KENYON & K	7590 10/03/200 ENYON LLP	EXAMINER		
ONE BROADWAY			BYTHROW, PETER M	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			10/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/587,664	TOENNESEN ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	Peter M. Bythrow	3662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
·=						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-20</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>26 <i>July 2006</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)	as 🗖 tatan ta a	(PTO 442)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) 🗖 Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal Pa					
Paper No(s)/Mail Date	6)					

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### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

2. The information disclosure statements filed 07/26/2008 have been entered and considered. Initialed copies of the PTO-1449 by the Examiner are attached.

#### Oath/Declaration

3. The oath filed on 07/26/2008 is acceptable.

### **Drawings**

4. The drawings filed on 07/26/2008 are acceptable.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Pleva et al. (US 2002/0163478).

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As to Claim 11, Pleva discloses a radar sensor to monitor an area surrounding a motor vehicle (page 2 paragraph [0030], the sensor configured to monitor traffic in a lane adjacent to the motor vehicle (page 3 paragraph [0036]), the radar sensor including a phase controlled antenna (page 4 paragraph [0050]), and a control device configured to set a plurality of radar lobes having different geometries (page 5 paragraph [0067]).

**As to Claim 12**, Pleva discloses the control device configured to generate at least two radar lobes having different directions of emission simultaneously (page 4 paragraph [0048]).

**As to Claim 13**, Pleva discloses the radar lobes being of different sizes (page 5 paragraph [0067]).

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wollny (US 2002/0163478) as applied to claim 13 above and further in view of Herman (US 5008678).

As to Claim 14, Herman discloses a radar system for a vehicle (abstract), including a phase controlled antenna (column 3 lines 49-60), for transmitting at least two radar lobes, wherein a larger one of the two radar lobes is oriented obliquely toward a

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rear and side with respect to a longitudinal direction of the motor vehicle, and a smaller one of two radar lobes is oriented to the side with respect to the longitudinal direction of the motor vehicle (column 5 lines 29-54 and figures 4 and 5). It would have been obvious to modify Wollny such that a larger one of the two radar lobes is oriented obliquely toward a rear and side with respect to a longitudinal direction of the motor vehicle, and a smaller one of two radar lobes is oriented to the side with respect to the longitudinal direction of the motor vehicle, as taught by Herman, in order to detect traffic both behind and to the side of the motor vehicle.

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As to Claim 15, Herman discloses a radar system for a vehicle (abstract), including a phase controlled antenna (column 3 lines 49-60), for transmitting at least two radar lobes of approximately the same size (figures 4 and 5), wherein one of the radar lobes is oriented toward approximately a rear with respect to a longitudinal direction of the motor vehicle and the other one of the radar lobes is oriented obliquely toward the rear and to a side of the motor vehicle (column 5 lines 29-54 and figures 4 and 5). It would have been obvious to modify Wollny such that one of the radar lobes is oriented toward approximately a rear with respect to a longitudinal direction of the motor vehicle and the other one of the radar lobes is oriented obliquely toward the rear and to a side of the motor vehicle, as taught by Herman, in order to detect traffic both behind and to the side of the motor vehicle.

As to Claims 16 and 17, Herman discloses the control device being configured to generate different configurations of radar lobes in succession over time, wherein a configuration of a radar lobes generated at a first instant is rotated by a specified angle

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relative to a configuration of radar lobes generated at another instant by scanning the radar lobes (column 5 lines 18-54). It would have been obvious to modify Wollny such that the control device being configured to generate different configurations of radar lobes in succession over time, wherein a configuration of a radar lobes generated at a first instant is rotated by a specified angle relative to a configuration of radar lobes generated at another instant, as taught by Herman, in order to detect all objects within an angular coverage area located proximate to the vehicle.

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As to Claim 18, Wollny discloses the configuration of radar lobes differing with regard to the number of separate lobes as a result of combining two separate beams (page 4 paragraph [0048] and figure 7A element 124A).

As to Claim 19, Wollny further discloses the control device being configured to generate a configuration having two radar lobes and a configuration having only one radar lobe, the one radar lobe being located approximately on a bisector of the two radar lobes of the other configuration(page 4 paragraph [0048] and figure 7A element 124A). Wollny does not explicitly teach the two configurations being generated alternately, however it would have been obvious to try, as it would cause no new or unexpected results.

9. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wollny (US 2002/0163478) as applied to claim 11 above, and further in view of Yamada (US 5793325).

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As to Claim 20, Yamada discloses a radar system for a motor vehicle, wherein a control device is configured to vary a direction of emission of the radar lobes as a function of curvature of a road (column 5 lines 26-54). It would have been obvious to modify Wollny, such that the control device were configured to vary a direction of emission of the radar lobes as a function of curvature of a road, as taught by Yamada, in order to detect a preceding vehicle even as the vehicle entered a curved portion of roadway.

### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter M. Bythrow whose telephone number is (571)270-1468. The examiner can normally be reached on Mon-Fri, 8AM-5:30PM, Alt Fri, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter Bythrow Examiner Art Unit 3662

/Thomas H. Tarcza/ Supervisory Patent Examiner, Art Unit 3662